ETS-1 Antibody

#6258 Store at -20°C

☑ 100 µl
(10 western blots)

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For Research Use Only. Not For Use In Diagnostic Procedures.

Entrez-Gene ID #2113
Swiss-Prot Acc. #P14921

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP Endogenous	H, M, R	52 kDa	Rabbit**

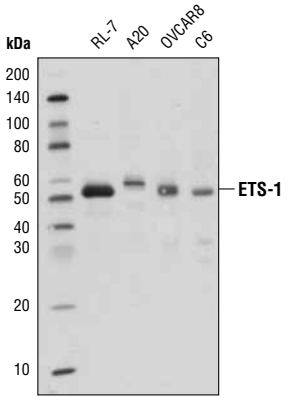
Background: ETS-1 is a proto-oncoprotein that belongs to the E26 Transformation-specific Sequence (ETS) family of transcription factors that share a unique and highly conserved DNA binding domain (1). ETS-1 plays important roles in vascular development and angiogenesis (2), and vascular inflammation and remodeling (3). The target genes of ETS-1 include receptor tyrosine kinases, MMPs, and cell adhesion molecules (4-6). In addition, ETS-1 is involved in regulation of energy metabolism in cancer cells (7). ETS-1 activity is regulated by two different types of phosphorylation sites. While phosphorylation at a cluster of serine residues in the exon VII domain by CaMKII inhibits ETS-1 DNA binding activity (8), phosphorylation at its Thr38 site by Ras activates ETS-1 (9).

Specificity/Sensitivity: ETS-1 Antibody recognizes endogenous levels of total ETS-1 protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser179 of human ETS-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

(1) Bartel, F.O. et al. (2000) *Oncogene* 19, 6443-54.
(2) Sato, Y. (2001) *Cell Struct Funct* 26, 19-24.
(3) Oettgen, P. (2006) *Circ Res* 99, 1159-66.
(4) Dube, A. et al. (1999) *Circ Res* 84, 1177-85.
(5) Lelièvre, E. et al. (2000) *Oncogene* 19, 2438-46.
(6) Ghosh, S. et al. (2012) *J Biol Chem* 287, 15001-15.
(7) Verschoor, M.L. et al. (2010) *PLoS One* 5, e13565.
(8) Pognonec, P. et al. (1988) *EMBO J* 7, 977-83.
(9) Yang, B.S. et al. (1996) *Mol Cell Biol* 16, 538-47.



Western blot analysis of extracts from various cell lines using ETS-1 Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. *Do not aliquot the antibody.*

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide
Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.

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